

## Amended claims.

1. (Currently Amended) A system for analyzing data comprising healthcare orders initiating treatment or services used in patient healthcare, comprising:

a data processor for identifying a potential change in use of a particular treatment by,

examining data representing a plurality of orders for treatment administration to a patient generated by healthcare clinicians over a particular time period and used in treating a plurality of patients, to identify a number of orders initiating application of a particular treatment to individual patients of said plurality of patients to address a particular medical condition; and

determining at least one of (a) whether said number of orders exceeds a predetermined threshold, and (b) whether a rate of change in said number of orders relative to a previously determined number of orders is significant to identify a potential change in use of said particular treatment;

an order entry processor for entering orders for administration of treatment to a patient; and

a message processor for automatically and proactively initiating generation of a message to alert a ~~message recipient~~ user of said order entry processor to permit review and potential modification of at least one order for said particular treatment corresponding to the identified potential change in use of said particular treatment in response to determining that at least one of (a) said number of orders exceeds a predetermined threshold, and (b) said rate of change in said number of orders relative to a previously determined number of orders is significant.

2. (Currently Amended) The system of claim 1, wherein

said message processor automatically and proactively initiating generation of said message in response to said user selecting said particular treatment for order and including

an acquisition processor for acquiring data representing said plurality of orders used in treating said plurality of patients and for associating an individual order with at least one of (a) said particular medical condition, and (b) a set of medical conditions including said particular medical condition.

3. (Previously Presented) The system of claim 1, including

an acquisition processor for acquiring data identifying a plurality of medical conditions exhibited by an individual patient and for applying said data

identifying said plurality of medical conditions exhibited by said individual patient in associating said individual order with said at least one of (a) said particular medical condition, and (b) a set of medical conditions including said particular medical condition.

4. (Original) The system of claim 3, wherein

said acquisition processor derives data identifying said plurality of medical conditions and potentially associated sub-conditions, wherein a potentially associated sub-condition of a medical condition is identified using a clinical knowledge model that associates medical conditions based upon one of potential etiology, potential complication, clinical associations, and a combination thereof.

5. (Original) The system of claim 3, wherein

said data identifying said plurality of medical conditions exhibited by said individual patient is acquired from a stored patient record.

6. (Previously Presented) The system of claim 1, wherein

said potential change in use of said particular treatment comprises at least one of (a) a change in frequency of use of said particular treatment by physicians to treat said particular medical condition, and (b) a change in type of medical condition treated with said particular treatment.

7. (Previously Presented) The system of claim 1, wherein

said data processor correlates data representing a particular order of said plurality of orders with at least one of (a) said particular medical condition, (b) another order of said plurality of orders, and (c) a documentation template used for initiating an order.

8. (Previously Presented) The system of claim 7, wherein

said data processor performs said correlation using at least one of (i) cluster analysis, (ii) best fit analysis, and (iii) a statistical correlation technique.

9. (Previously Presented) The system of claim 1, wherein

said message processor initiates generation of a message prompting a user with a suggestion of at least one of (a) an additional order item to be added to an existing order set documentation template, and (b) a deletion of an order item from an existing order set documentation template.

10. (Previously Presented) The system of claim 1, wherein  
a second message is received in response to said message alert and  
said second message initiates at least one of (a) an addition of an order  
item to an existing order set documentation template, and (b) a deletion of an  
order item from an existing order set documentation template.

11. (Currently Amended) The system of claim 1, wherein  
an acquisition processor for acquiring data identifying a plurality of  
medical conditions exhibited by an individual patient and  
applying said data identifying said plurality of medical conditions  
exhibited by said individual patient in associating said an individual order with  
said at least one of (a) said particular medical condition, and (b) a set of medical  
conditions including said particular medical condition.

12. (Previously Presented) The system of claim 1, wherein  
said data processor monitors data representing orders to identify said data  
representing said plurality of orders for examining based on at least one of (i) a  
predetermined particular order item in an order set, (ii) a predetermined particular  
order documentation template, (iii) a source of a predetermined particular order,  
and (iv) a predetermined particular medical condition likely to be associated with  
an order.

13. (Currently Amended) A system for suggesting to a user an alteration to an existing documentation order template used for initiating treatment or services used in patient healthcare, comprising:

an order entry processor for entering orders for administration of treatment to a patient; and

a data processor for identifying a potential change in use of a particular treatment by,

examining data representing a plurality of orders for treatment administration to a patient generated by healthcare clinicians over a particular time period and used in treating a plurality of patients, to identify a number of orders initiating application of a particular treatment to individual patients of said plurality of patients to address a particular medical condition and

determining whether a change in said number of orders relative to a previously determined number of orders is significant, and

automatically and proactively prompting a user of said order entry processor with a suggestion of at least one of (a) an additional order item to be added to an existing order set documentation template, and (b) a deletion of an order item from an existing order set documentation template in response to determining that the change in said number of orders relative to the previously determined number of orders is significant.

14. (Currently Amended) A system for analyzing data comprising healthcare orders initiating treatment or services used in patient healthcare, comprising:

an order entry processor for entering orders for administration of treatment to a patient;

an acquisition processor for acquiring data representing said plurality of orders used in treating said plurality of patients and for associating an individual order with at least one of (a) said particular medical condition, and (b) a set of medical conditions including said particular medical condition;

a data processor for identifying a potential change in use of a particular treatment by,

examining data representing a plurality of orders associated with a particular medical condition and generated by healthcare clinicians over a particular time period and used in treating a plurality of patients, to identify a number of orders initiating application of a particular treatment to individual patients of said plurality of patients; and

determining whether a change in said number of orders relative to a previously determined number of orders is significant to identify a potential change in use of said particular treatment; and

a message processor for automatically and proactively initiating generation of a message to alert a ~~message recipient~~ user of said order entry processor to permit review and potential modification of at least one order for said particular treatment corresponding to the identified potential change in use of said particular treatment in response to determining that the change in said number of orders relative to the previously determined number of orders is significant.

15. (Currently Amended) A method for analyzing data comprising healthcare orders initiating treatment or services used in patient healthcare to identify a potential change in use of a particular treatment, comprising the steps of:

examining data representing a plurality of orders for treatment administration to a patient generated by healthcare clinicians over a particular time period and used in treating a plurality of patients, to identify a number of orders initiating application of a particular treatment to individual patients of said plurality of patients to address a particular medical condition; and

determining at least one of (a) whether said number of orders exceeds a predetermined threshold, and (b) whether a rate of change in said number of orders relative to a previously determined number of orders is statistically significant to identify a potential change in use of said particular treatment; and

automatically and proactively initiating generation of a message to alert a ~~message-recipient~~ user of an order entry processor for entering orders for administration of treatment to a patient to permit review and potential modification of at least one order for said particular treatment corresponding to the identified potential change in use of said particular treatment in response to determining that at least one of (a) said number of orders exceeds a predetermined threshold, and (b) said rate of change in said number of orders relative to a previously determined number of orders is significant.

16. (Previously Presented) A method according to claim 15 further comprises the step of:

acquiring data representing said plurality of orders used in treating said plurality of patients and for associating an individual order with at least one of (a) said particular medical condition, and (b) a set of medical conditions including said particular medical condition.

17. (New) A method according to claim 15 wherein

said step of automatically and proactively initiating generation of a message to alert said user of said order entry processor to permit review and potential modification of said least one order occurs in response to determining a rate of change in said number of orders relative to a previously determined number of orders is significant.